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APPLICATION NO.	CATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO. CONFIRMATIO		
10/710,416	07/08/2004	Hsu-Feng Ho	22171-00017-US1	22171-00017-US1 4415	
30678 7	590 10/06/2006	EXAMINER			
	BOVE LODGE & HUTZ	TRAN, THANG·V			
P.O. BOX 220° WILMINGTO	7 N, DE 19899-2207	ART UNIT	PAPER NUMBER		
	,	2627			
			DATE MAILED: 10/06/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Applicati	on No.	Applicant(s)					
Office Action Summary		10/710,4	16	HO ET AL.					
		Examine		Art Unit	T				
		Thang V.	Tran	2627					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
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Status									
2a) <u></u>	Responsive to communication(s) filed on This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	ion of Claims								
5)⊠ 6)⊠ 7)□ 8)□ Applicati 9)□ 10)□	Claim(s) 1-19 is/are pending in the application 4a) Of the above claim(s) is/are withd Claim(s) 1-12 is/are allowed. Claim(s) 13-19 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and con Papers The specification is objected to by the Examination The drawing(s) filed on is/are: a) are applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the	rawn from co d/or election re iner. ccepted or b) he drawing(s) b ection is require	equirement. objected to by the E held in abeyance. See d if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 C					
Priority u	ınder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		4) Interview Summary (Paper No(s)/Mail Dai 5) Notice of Informal Pa 6) Other:	te					

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 13-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamaguchi et al (US 5,268,883).

Regarding claim 13, see Fig. 1 of Yamaguchi et al. which discloses a device for performing switching servo gains and offsets for an optical disk drive, comprising microcomputer (26) for performing a step determining the location of a pick-up head on an optical disk; circuit (42) for performing a step of outputting a signal after the conversion from a servo signal (tracking error signal) by a first gain with a bigger gain if the pick-up head stays at a location (ROM area RM) with a low reflective ratio on the optical disk; and outputting a normalized signal referring to the outputting level of the first gain after the conversion from the servo signal by a second gain with a smaller gain if the pick-up head stays at a location (recording area RD) with a high reflective ratio on the optical disk (see column 8, line 40 to column 11, line 10).

Regarding claim 14, see tracking error signal output from circuit 41.

Regarding claim 15, see the outputted servo signal is from the conversion of the first gain when the pick-up head is in a blank area (recording area where data to be recorded is

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interpreted as blank area), and the outputted servo signal is from the conversion of the second gain when the pick-up head is in a data area (Rom area RM).

Regarding claim 16, see column 12, lines 30-36.

Regarding claim 17, see the offset and again calculated by microcomputer 26. The method for switching servo gains and offsets for an optical disk drive of claim 13, further comprising the step of: determining the values of a first offset, a second offset, a first gain unit and a second gain unit by means of on-line or off-line detecting the servo signal.

3. Claims 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Ohshima (US 5,436,877).

Regarding claim 18, see Fig. 1 of Ohshima which discloses a control system in which includes a controller (8) for performing a step of determining the location of a pick-up head on an optical disk; circuit (10) for performing a step of outputting a signal after the conversion from a servo signal (tracking error signal) by a first gain with a smaller gain if the pick-up head is in a tracking status (tracking following) and outputting a normalized signal referring to the outputting level of the first gain after the conversion from the servo signal by a second gain with a bigger gain if the pick-up head is in a seeking status (track positioning operation or seeking operation).

Regarding claims 19 and 20, see gains G1 and G2.

4. Claims 18-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Tsai (US 7,092,323).

Regarding claim 18, see Fig. 3 of Tsai which discloses a control system in which includes a controller (33) for performing a step of determining the location of a pick-up head on an optical disk; circuit (331-333) for performing a step of outputting a signal after the

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conversion from a servo signal (focusing error signal) by a first gain (331) with a smaller gain if the pick-up head is in a tracking status and outputting a normalized signal referring to the outputting level of the first gain after the conversion from the servo signal by a second gain (332)with a bigger gain if the pick-up head is in a seeking status.

Regarding claims 19 and 20, see gains in compensators 331 and 332.

Allowable Subject Matter

5. Claims 1-12 are allowed over the prior art of record because all of references of the prior art, considered alone or in combination, fails to suggest or fairly teach an apparatus including a combination of all of features and their structural arrangement as particularly recited in claim 1. Claims 2-12 are allowed with their respective parent claim.

Cited References

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited references relate to an optical apparatus including first gain and a second gain for different modes of servo operations.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thang V. Tran whose telephone number is (571) 272-7595. The examiner can normally be reached on M-F 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nguyen Hoa can be reached on (571) 272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Thang V. Tran
Primary Examiner

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